WORLD MEAT: MAIN DRIVERS

Hsin Huang, Secretary General International Meat Secretariat

Agri benchmark, Pretoria, South Africa June 21 2012



INTERNATIONAL MEAT SECRETARIAT

The International Meat Secretariat (IMS) brings together meat and livestock organisations throughout the world

Non-profit making association.

Forum for the exchange of ideas and experiences on international issues: conferences, meetings, publications

Representation in international organisations: FAO, OIE, OECD, WHO

Members: national meat and livestock organisations, corporations and other bodies connected with the meat and livestock sector

More than 90 members in over 30 countries around the world countries are the world countries

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AGRICULTURE KEY DRIVERS

END OF LOW PRICES IN AGRICULTURE

- 1. Demand
- Population growth
- Income growth, mainly from production deficit regions
- Income growth, grains to meat
- 2. Supply
- Trend yield growth decelerating (productivity treadmill)
- Structural surplus to structural deficit?



MEAT: CHALLENGES IN DEVELOPED ECONOMIES

DEMAND STABLE OR DECLINING

- Reached saturation levels
- Health concerns, obesity (energy dense, nutrient poor diet)
- Role of meat in healthy diet not well communicated, particularly for young and old (nutrient dense protein)
- Sustainability
- Animal welfare





US MEAT CONSUMPTION TYPICAL OF DEVELOPING WORLD

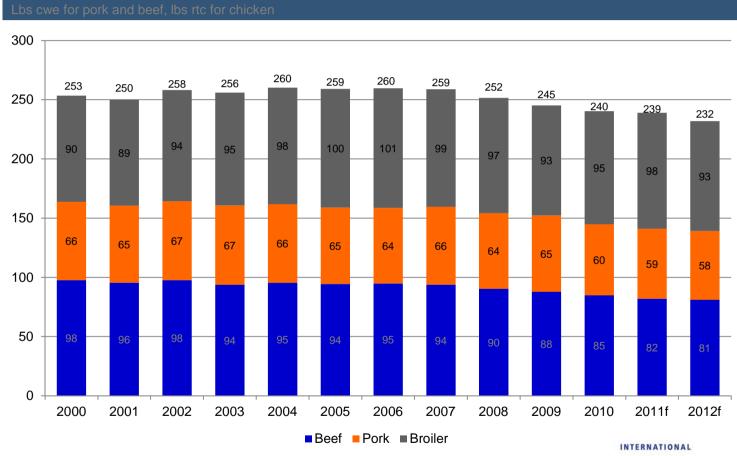
US per Capita Annual Meat Consumption

For US protein companies and their suppliers, part of the challenge is that the US market has matured.

Animal protein companies must now look to export.

The good news is that the US is a grain surplus country and a low cost animal protein producer.

Another positive factor is that except for chicken breast meat, meat protein prices are rising faster than per capita consumption is falling – a sign of strong demand – even in this economy.



Source: USDA. Rabobank estimates



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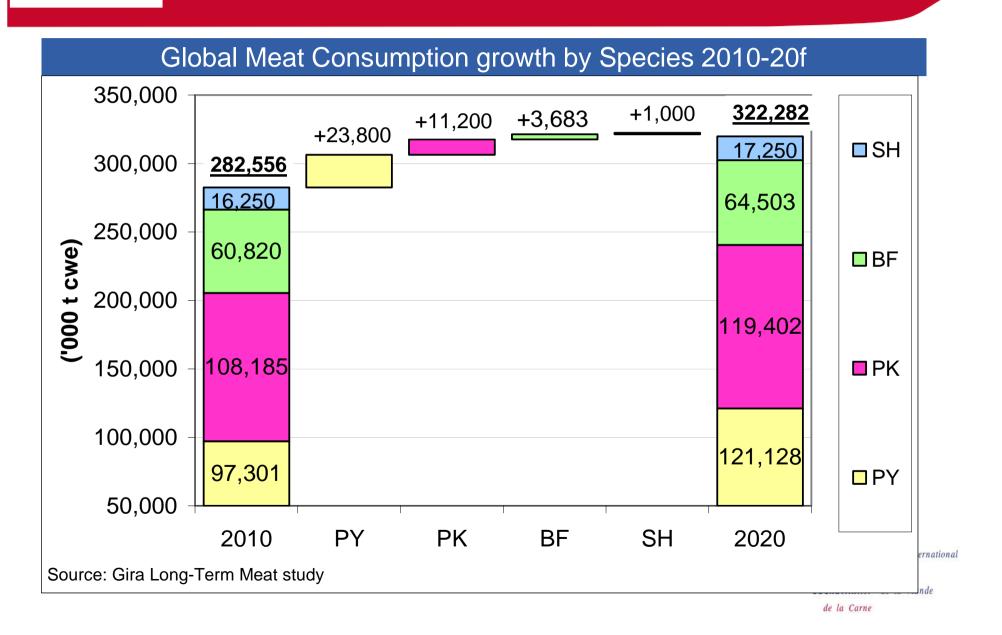
MEAT: CHALLENGES IN DEVELOPING ECONOMIES

CHINA, INDIA, INDONESIA ARE 40% WORLD POPULATION

- GDP between 3 000 to 5 000
- Much faster rates growth (>>5%, compared to developed)
- "sweet spot", income gains translate into increased demand for meat
- Grain deficit, land poor –will need to import meat (and grains)
- Sustainability?
- Animal welfare?



Long term consumption growth dominated by poultry, driven by relative price





Positive beef demand fundamentals ... and higher producer confidence, but feed and other cost rises evoke cautious herd growth

Good long term demand fundamentals

Especially, but not only, in developing markets

But short term EU and US consumption difficulties

Rising producer prices

But also higher costs, especially feed ... and associated ethical & sustainability costs

Intensification

From a diverse starting point

Upset by recent low finishing margins

Selective modest long term increase in breeding herd

Expected, but not evidenced, in S.America

Frequently thwarted by pastoral conditions e.g. SW US drought in 2011

Increasing trade volumes

To some new & interesting markets e.g. Turkey

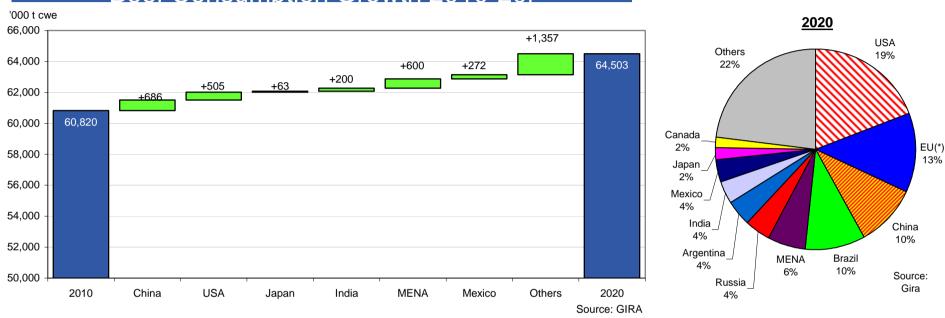
Slow improvement in **vertical communication** in the beef chain



Broadly spread beef consumption growth in the US, MENA & Asia ... but not EU

Beef Consumption Growth 2010-20f

Beef Consumption



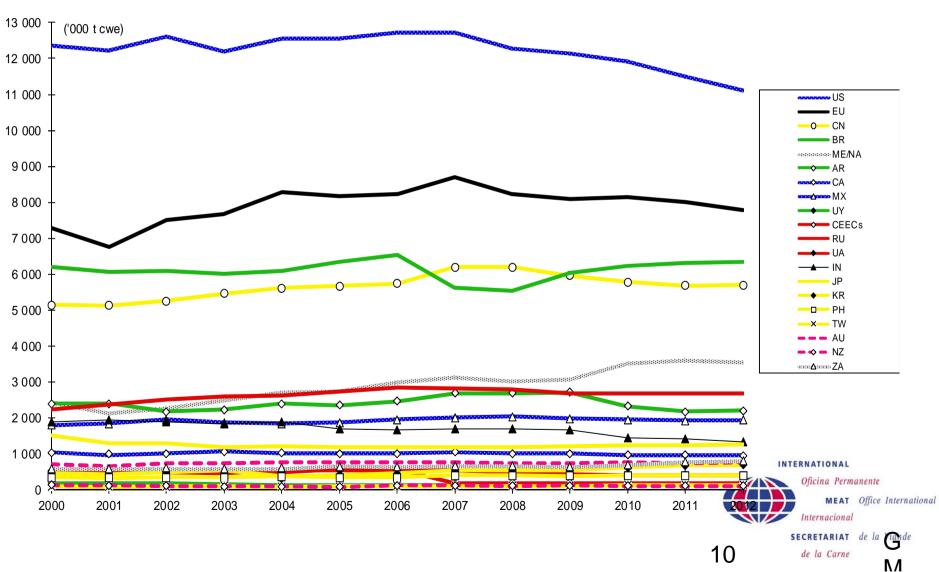
China and MENA growth ... with import opportunities

"Others" reflects broad gains in developing world
... but also US growth ... although short term downturn

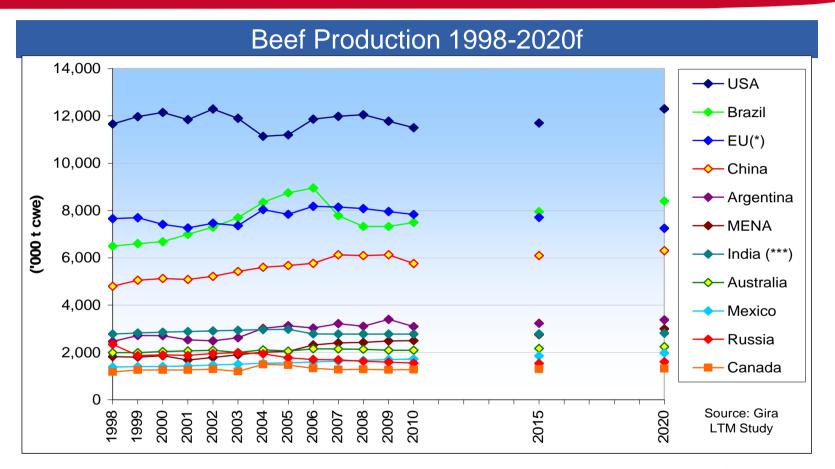


... with short term beef consumption declines in key US and EU markets

Figure SYN-BF 3: Beef & Veal Consumption, 2000-2012



Outlook for slow increases in global beef supply, led by a cautious US & S.America



Limited herd growth, ... takes time – and can be offset by various problems

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shift to more intensive finishing

Good long term global demand outlook ... but even more volatility than usual

Good long term pigmeat demand fundamentals ... at higher prices

... just as well, because feed and welfare costs are rising

2012 price 'downtick' from disease-inflated 2011 price levels

... somewhat offset by slightly lower feed costs

Asian (and Russian) import demand slightly weaker

Short-medium term outlook fraught with uncertainty

Speed of *Chinese production recovery* from 2011 PRRS leading to lower 2012 import demand

Risk of further *disease disruption*: ASF and PRRS-type outbreaks

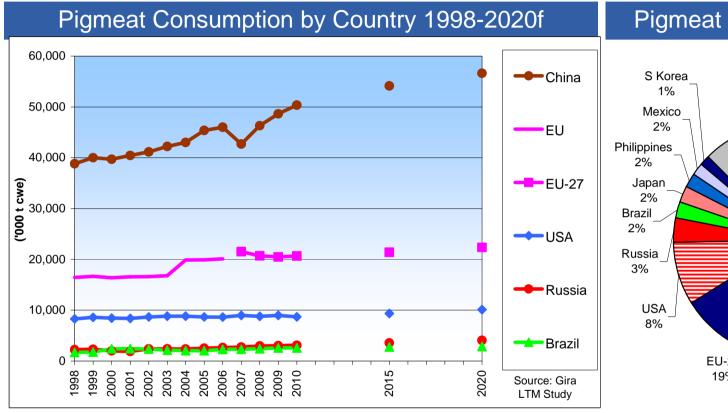
'Weather market' in feedgrains

Impact of EU sow loose-housing regulation from 1/1/2013

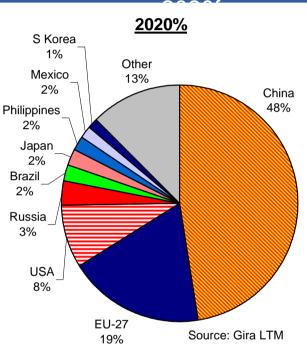
... Mainly upside price potential



Pigmeat consumption to grow 10%, driven by population growth, preference & low cost



Pigmeat Consumption share



Global PK consumption growth of 11.2mt (+10%) 2010-20f

>60% of which in China: even though per capita consumption of 38 kg cwe per annum now caught up with Taiwan



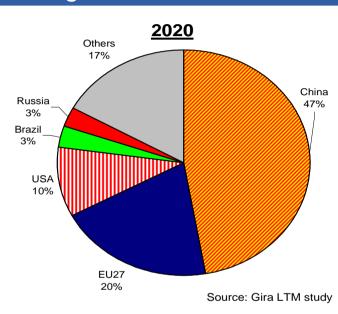
Pig production dominated by Chinese growth, although at a slower rate than in the past

LTM Study





Pig Production Share



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CN productivity gains much greater than herd growth

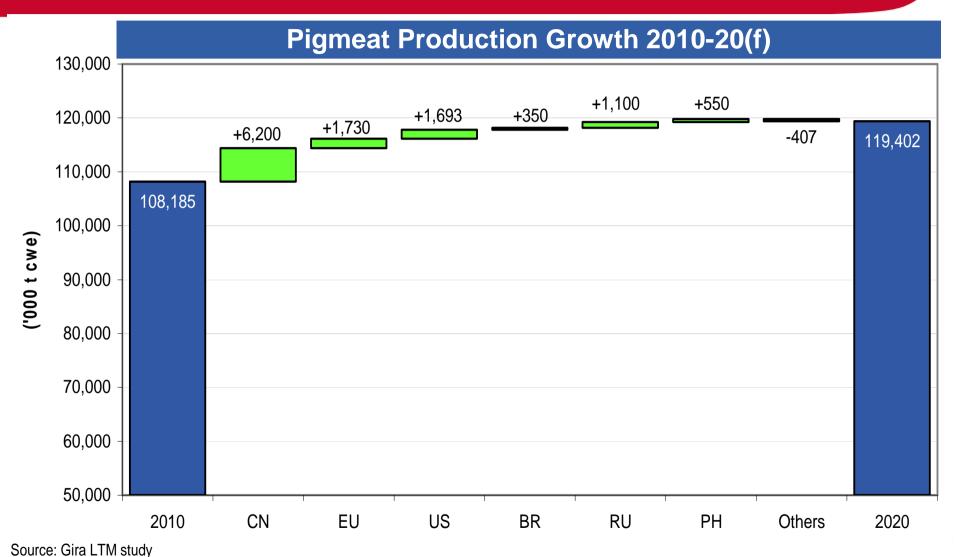
motivated by higher prices

upscaling (with much greater efficiency)

... but even the backyard increases output

2012 production recovery from PRRS seems faster than expected – leading to lower prices, and intervention support

... and a handful of countries which account for bulk of pigmeat production growth



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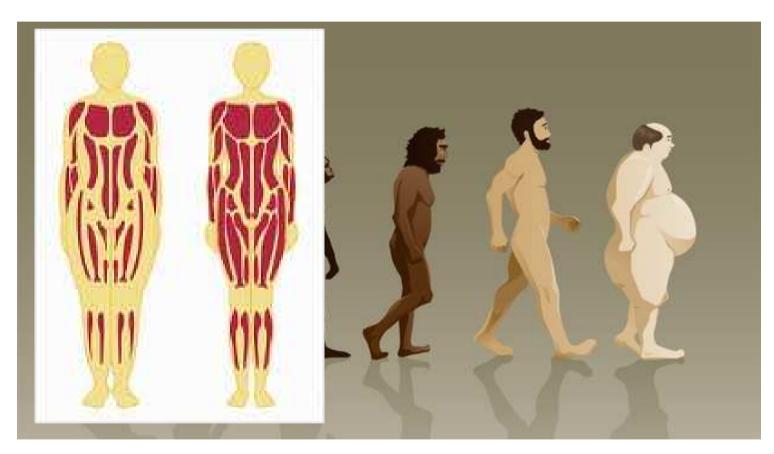
LIVESTOCK AND SUSTAINABILITY

Livestock is also

- High quality protein, heme iron, vitamin b12
- Leather, wool
- Landscape, biodiversity
- Water and soil quality
- Economic (investment) and social benefits (status)



Sarcopenic Obesity



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IT'S GETTING COMPLICATED

- HEALTH
- CO2

 EMISSIONS
- POLLUTION
- BIODIVERSITY
- ANIMAL
 WELFARE
- ETC, ETC ...



"THERE'S NOTHING TO EAT!"



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Relevant functional unit

	kg CO ₂ -equiv. per kg or per litre
Coca-cola	<0.25
Apples	0.3
Milk	1
Lamb	9

Relevant functional unit

	kg CO ₂ -equiv. per kg or per litre	kg CO ₂ -equiv. per kg protein
Coca-cola	<0.25	Infinity!
Apples	0.3	90
Milk	1	30
Lamb	9	40

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GRASSLANDS IMPACT:

- Climate regulation by carbon sequestration
 - Ex: France: 33% of livestock farming greenhouse gas emissions offset by carbon storage in pastures
- Water resources & Water availability
- Biodiversity : Species, pollination, environmental services
- Landscape
- Fire regulation
- Soil structure and fertility
- Flood regulation

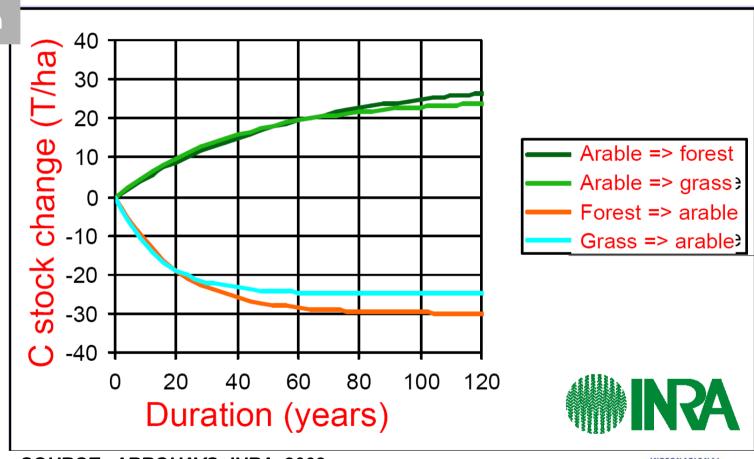


In Europe (27), 1/3 of agricultural land is permanent pastures, used by livestock



Grassland and forest: same sequestration after LUC!

Climate regulation



SOURCE: ARROUAYS, INRA, 2003



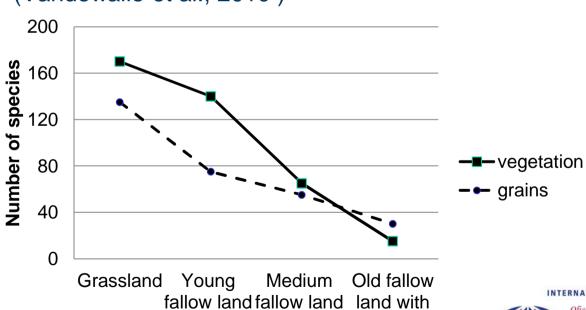
Agricultural landscapes : major habitat for biodiversity

Biodiversity

- ▶ 50 % bird species depend on habitats for breeding and feeding (Pain and Pienkowski, 1997)
- Grasslands represent the most species-rich vegetation types (up to 80 plant species/m²) (Vandewalle et al., 2010)







trees

SOURCE: BAKKER & BERENDSE IN INRA, 2011



SUSTAINABILITY WISHLIST

PRODUCERS

- Produce more of what we want
- Produce less of what we don't want
- Continuous improvement « journey » not a « destination »,
- Identify hotspots
- Improve profitability

CONSUMERS?



DON'T CONFUSE THE CONSUMER

GREENHOUSE GASES (less is better)

Product A < Product B

Should consumer choose between NZL lamb vs UK lamb? Food miles debate

Should consumer choose between chicken or steak? One industry vs another

Should consumer choose between vegetables or meat? Vegetarian argument

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NEED FOR SHARED ENVIRONMENTAL ASSESSMENT METHODS

- Need for international normalized methods
- Pre-competitive issue
- Assess positive environmental impacts and positive social and economic externalities
- Animal welfare!

- Partnership with FAO on LCA
- Partnership with FAO on GAA



FINAL THOUGHTS



BE PROUD OF MEAT!

- Humans are omnivorous, meat is a natural food adapted to their physiology
- Humans have a natural tendency towards meat; consumption increases along with living standard
- Meat is good for health; it is rich in proteins, iron, zinc, selenium, B12 vitamin
- Synonym of pleasure, social interaction and Celebration

 Celebration

 Synonym of pleasure, social interaction and Celebration

 Celebration

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BEEF, DEVILISHLY DELICIOUS!



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